CLAIMS

What is claimed is:

1. A graphical user interface, comprising:

a plurality of main displays, each for displaying an image set;

a user interactive system for receiving from a user a first location of an object-of-interest in one of said image sets; and

a correlation system for finding and displaying a second location, corresponding to said first location, of a corresponding second volume-of-interest in at least one of said other image sets.

2. The graphical user interface of claim 1 wherein a first volume-of-interest is defined about said first location of said object-of-interest.

3. The graphical user interface of claim 2 wherein said first and second volumes-of-interest are rendered as Shaded Surface Displays.

4. The graphical user interface of claim 1 wherein said image sets are rendered as Shaded Surface Displays.

5. The graphical user interface of claim 1 further comprising displays permitting the user to examine said volumes-of-interest with free viewpoints.

6. The graphical user interface of claim 1 further comprising one or more data windows for displaying image properties of at least one of said image sets.

7. The graphical user interface of claim 1 further comprising a lock-scrolling system for synchronized scrolling of two or more image sets.

8. The graphical user interface of claim 1 further comprising a cartwheel projection system for side-by-side display of two or more cartwheel projection spin windows.

9. The graphical user interface of claim 1 further comprising:

a first property display for displaying physical properties of said object-of-interest;

a second property display for displaying physical properties of a second object-of-interest located within said second volume-of-interest; and

wherein said first and second property displays may be displayed side-by-side.

10. A program storage device, readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for a graphical user interface for an object-correspondence system, said method steps comprising:

providing a plurality of main displays, each for displaying an image set;

receiving from a user a first location of an object-of-interest in one of said image sets; and

receiving a second location of a second volume-of-interest from a correlation system, said second location corresponding to said first location.

11. The storage device of claim 10 wherein a first volume-of-interest is defined about said first location of said object-of-interest.

12. The storage device of claim 11 wherein said first and second volumes-of-interest are rendered as Shaded Surface Displays.

13. The storage device of claim 10 wherein said image sets are rendered as Shaded Surface Displays.

14. The storage device of claim 11 further comprising machine readable code to allow the user to examine said volumes-of-interest with free viewpoints in 3D in synchronization.

15. The storage device of claim 10 further comprising one or more data windows for displaying image properties of a volume-of-interest at least one of said image sets.

16. The storage device of claim 10 further comprising machine-readable code for synchronized scrolling of two or more image sets.

17. The storage device of claim 10 further comprising machine-readable code for side-by-side display of two or more cartwheel projection spin windows.

18. The storage device of claim 10 further comprising machine readable code for:

providing a first property display for displaying physical properties of said object-of-interest;

providing a second property display for displaying physical properties of a second object-of-interest located within said second volume-of-interest; and

displaying said first and second property displays side-by-side.

19. A method of interfacing graphically with a user for an object-correspondence identification system, comprising the steps of:

providing a plurality of main displays, each for displaying an image set;

receiving from a user a first location of an object-of-interest in one of said image sets; and

receiving a second location of a second volume-of-interest from a correlation system, said second location corresponding to said first location.

20. The method of claim19 wherein a first volume-of-interest is defined about said first location of said object-of-interest.

21. The method of claim 20 wherein said first and second volumes-of-interest are rendered as Shaded Surface Displays.

22. The method of claim 19 wherein said volumes-of-interest are rendered as Shaded Surface Displays.

23. The method of claim 19 further comprising providing examination of said volumes-of-interest in 3D with free viewpoints in synchronization.

24. The method of claim 19 further comprising one or more data windows for displaying image properties of at least one of said image sets.

25. The method of claim 19 further comprising providing a lock-scrolling system for synchronized scrolling of two or more image sets.

26. The method of claim 19 further comprising providing a cartwheel projection system for side-by-side display of two or more cartwheel projection spin windows.

27. The method of claim 19 further comprising:

providing a first property display for displaying physical properties of said object-of-interest;

providing a second property display for displaying physical properties of a second object-of-interest located within said second volume-of-interest; and

displaying said first and second property displays side-by-side.